

8-13

RESERVOIR SEDIMENTATION
DATA SUMMARY

Muskingum College Reservoir
NAME OF RESERVOIR

21-11

DATA SHEET NO.

DAM	1. OWNER Muskingum College				2. RIVER Unnamed tributary to Muskingum River		3. STATE Ohio								
	4. SEC. TWP. 2 N RANGE 5 W			5. NEAREST TOWN New Concord		6. COUNTY Muskingum									
	7. STREAM BED ELEV. -				8. TOP OF DAM ELEV. -		9. SPILLWAY CREST ELEV. -								
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. SURFACE AREA ACRES		13. STORAGE ACRE- FEET		14. ACCUMULATED ACRE- FEET		15. DATE STORAGE BEGAN				
	a. FLOOD CONTROL										1915				
	b. POWER														
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION														
	e. CONSERVATION				0.94		9.41		9.41		1915				
	f. INACTIVE														
17. LENGTH OF RESERVOIR					MILES		AV. WIDTH OF RESERVOIR					MILES			
WATERSHED	18. TOTAL DRAINAGE AREA 0.32				SQ. MI.		22. MEAN ANNUAL PRECIPITATION				INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 0.31				SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES				
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF 717 per sq.mi.*AC.-FT.						
	21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION Humid								
	26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS		29. TYPE OF SURVEY		30. NO. OF RANGES OR CONTOUR INT.		31. SURFACE AREA ACRES		32. CAPACITY ACRE- FEET		33. C/W RATIO AC.-FT. PER SQ. MI.
1915		-		-		-		-		0.94		9.41		29.4	
Nov. 1, 1935		20		20		Contour Detailed		1 Foot		0.94		7.05		22.0	
26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AC.-FT.							
				a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE			
Nov. 1, 1935				672 per sq. mi.*						672 per sq. mi. *					
26. DATE OF SURVEY		37. PERIOD SEDIMENT DEPOSITS ACRE- FEET				38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.									
		a. PERIOD TOTAL		b. AV. ANNUAL		c. PER SQ. MI.-YEAR		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR			
Nov. 1, 1935		2.36		0.118		0.381		2.36		0.118		0.381			
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PER SQ. MI.-YR.				41. STORAGE LOSS PCT.		42. SED. INFLOW PPM					
				a. PERIOD		b. TOTAL TO DATE		a. AV. ANNUAL		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE	
Nov. 1, 1935		70 *		581		581		1.25		25.1		600 *		600 *	

* Estimated

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES
 Eakin, H. M. and Brown, C. B. Silting of Reservoirs. U.S.D.A. Technical Bulletin 524, Washington, D.C. Revised August 1939.
 Brune, Gunnar M. Rates of sediment production in midwestern United States. Soil Conserv. Serv., SCS-TP-65, 40 pp., illus., processed, Milwaukee Wis., Dec. 1948.
 Sanderson, E.E. Sedimentation of reservoirs in Ohio. Ohio Water Resources Board, Bulletin 17, Columbus, Ohio, April 1948.
 Survey by R. H. Mitchell and G. Robert Hall of Muskingum College.

48. AGENCY SUPPLYING DATA Region 3, Soil Conservation Service
U. S. Department of Agriculture
Milwaukee, Wisconsin 49. DATE July 22, 1949